

Abstract

Method of purifying a gas stream contaminated by CO₂ and one or more hydrocarbons and/or nitrogen oxide(s) by absorption on a aggregated zeolitic adsorbent

The present invention relates to a novel method of purifying a gas stream contaminated by CO₂, hydrocarbons and/or nitrogen oxides, in particular a gas stream based on air or a syngas, by adsorption on a bed of aggregated zeolitic adsorbent based on an LSX zeolite or LSX and X zeolites, of which at least 90% of the exchangeable cationic sites of the LSX zeolite or of the LSX/X zeolite blend are occupied by sodium ions, and the inert binder of which represents at most 5% of the weight of the adsorbent.